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**PCT**

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1. *Journal of the American Medical Association*, 2000; 283: 2689-2696.

(57) Abstract: A microelectronic programmable structure and methods of forming and programming the structure are disclosed. The programmable structure generally include an ion conductor (140) and a plurality of electrodes (160, 120). Electrical properties of the structure may be altered by applying a bias across the electrodes, and thus information may be stored using the structure.